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AGENCY OF TRANSPORTATION

Montgomery

VT 118
Bridge 19 over Trout River

Montgomery STP DECK (40)

Project Location: Town of Montgomery in Franklin County on VT 118 over Trout River. The bridge is located near the intersection of Comstock Bridge Rd and VT 118.

The Montgomery STP DECK(40) project will replace the existing bridge deck, which has non-crash tested bridge and approach railing, with a new bridge deck that meets current design standards. The existing structure is a single span cast-in-place deck on rolled beams constructed in 1953. It is approximately 177 feet in length and 30 feet wide. The existing bridge rail features concrete parapets with tubular metal railing and a curb with "wind slots". The bridge deck is in 'poor' condition while the superstructure and substructure are in 'good' and 'satisfactory' condition, respectively. VTrans bridge inspectors have observed areas of heavy saturation, cracking, and efflorescence in the deck which is evidence of significant concrete deterioration. The bridge is owned and maintained by the State of Vermont.

VTrans evaluated several alternatives to preserve and extend the service life of the Montgomery VT 118 Bridge 19 in an engineering study completed in February of 2016. The study assessed the proposed design criteria for lane and shoulder widths, safety criteria, and historic requirements. Several alternatives were considered including, no action, concrete deck patching, and deck replacement. The study also considered a number of traffic maintenance options such as a short term bridge closure and phased construction. The engineering study recommends replacing the existing bridge deck and bridge railing through phased construction (maintaining on way alternating traffic while the bridge deck is replaced in the opposite lane). This method will minimize impacts to right-of-way, utilities, and the environment.

The new bridge deck will be constructed using conventional cast-in-place construction methods. The new bridge deck will be the same width, be continuous over the piers, and have a greater load carrying capacity than the existing deck. It will also feature a new crash tested bridge railing that ties into the surrounding community and satisfies the historic requirements. By applying this cost-effective treatment at the right time, the useful life of the structure will be extended another 30-40 years. This provides the largest benefit for the lowest cost when compared to the other bridge treatment alternatives.

PROJECT MILESTONES

Permitting
Fall 2016

Final Design Complete
Fall 2016

Right-of-Way Complete
Not Applicable

Bid Advertisement
Winter 2017

Contract Award
Spring 2017

Target Construction Schedule
Summer 2017

Looking Toward East Berkshire

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Target Construction Schedule: It is anticipated that this project will take place in 2018.

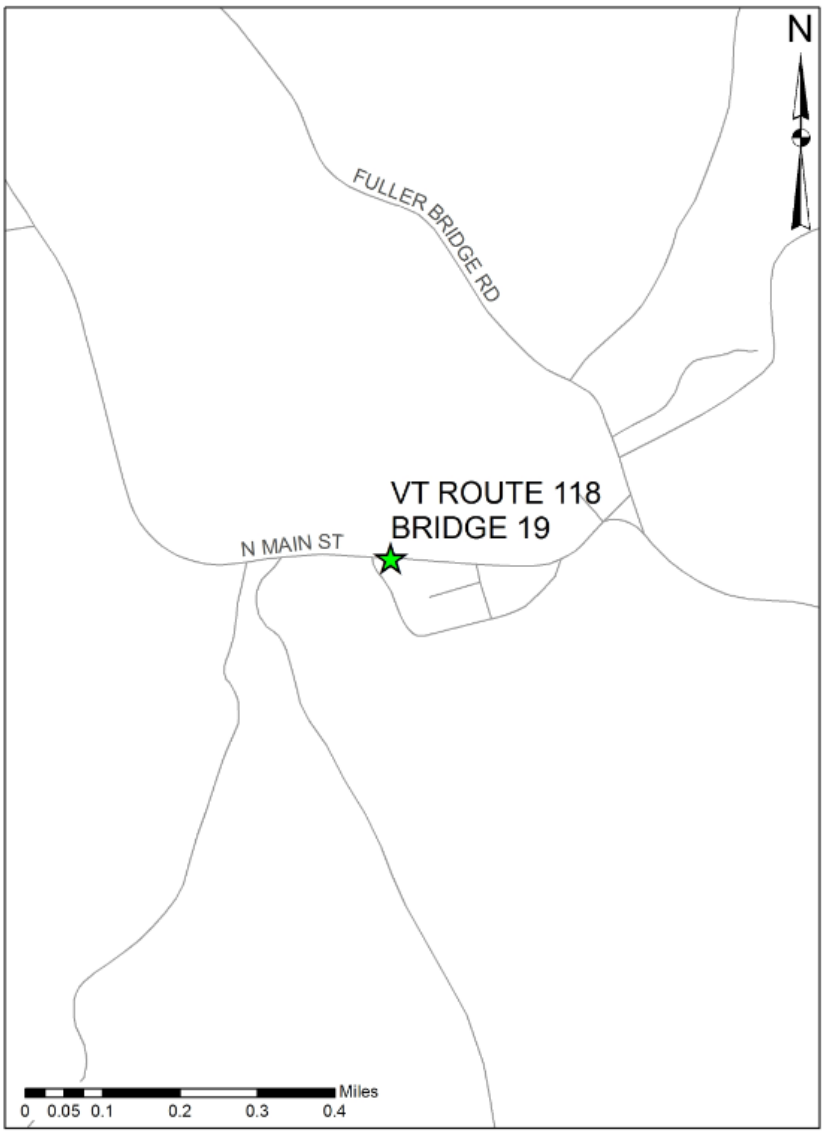
Contractor: TBD

Estimated Total Project Cost: TBD

VTrans Project Manager: Jennifer Fitch, P.E. (Project Initiation); Carolyn Carlson, P.E. (Design and Construction)

VTrans Resident Engineer: TBD

Maintenance of Traffic: Traffic will be maintained on alignment utilizing phased construction and alternating one way traffic.



Deterioration in Bridge deck 2015

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